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Published before June 2003
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Relevance scale

1 File servers for network-based distributed systems

Liba Svobodova
December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4
Publisher: ACM Press

Full text available: pdf(4.23 MB) Additional Information: full citation, references, citings, index terms, review

2 The evolution of Coda

M. Satyanarayanan
May 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 2
Publisher: ACM Press

Full text available: pdf(441.35 KB) Additional Information: full citation, abstract, references, citings, index terms

Failure-resilient, scalable, and secure read-write access to shared information by mobile and static users over wireless and wired networks is a fundamental computing challenge. In this article, we describe how the Coda file system has evolved to meet this challenge through the development of mechanisms for server replication, disconnected operation, adaptive use of weak connectivity, isolation-only transactions, translucent caching, and opportunistic exploitation of hardware surrogates. For eac ...

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, continuous data access, data staging, disaster recovery, disconnected operation, failure, high availability, hoarding, intermittent networks, isolation-only transactions, low-bandwidth networks, mobile computing, optimistic replica control, server replication, translucent cache management, weakly connected operation

3 Data compression

Debra A. Lelewer, Daniel S. Hirschberg
September 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 3
Publisher: ACM Press

Full text available: pdf(3.61 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper surveys a variety of data compression methods spanning almost 40 years of research, from the work of Shannon, Fano, and Huffman in the late 1940s to a technique developed in 1986. The aim of data compression is to reduce redundancy in stored or communicated data, thus increasing effective data density. Data compression has important application in the areas of file storage and distributed systems. Concepts from information theory as they relate to the goals and evaluation of data ...

4 Cryptography and data security

Dorothy Elizabeth Robling Denning
January 1982 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(19.47 MB) Additional Information: full citation, abstract, references, cited by, index terms

From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

5 The process group approach to reliable distributed computing

Kenneth P. Birman
December 1993 **Communications of the ACM**, Volume 36 Issue 12

Publisher: ACM Press

Full text available: pdf(6.00 MB) Additional Information: full citation, references, citings, index terms

Keywords: fault-tolerant process groups, message ordering, multicast communication

6 Disconnected operation in the Coda File System

James J. Kistler, M. Satyanarayanan
February 1992 **ACM Transactions on Computer Systems (TOCS)**, Volume 10 Issue 1

Publisher: ACM Press

Full text available: pdf(1.59 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Disconnected operation is a mode of operation that enables a client to continue accessing critical data during temporary failures of a shared data repository. An important, though not exclusive, application of disconnected operation is in supporting portable computers. In this paper, we show that disconnected operation is feasible, efficient and usable by describing its design and implementation in the Coda File System. The central idea behind our work is that cachi ...

Keywords: disconnected operation, hoarding, optimistic replication, reintegration, second-class replication, server emulation

7 Encryption and Secure Computer Networks

Gerald J. Popek, Charles S. Kline
December 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 4

Publisher: ACM Press
Full text available: pdf(2.50 MB) Additional Information: full citation, references, citings, index terms

8 Engineering web cache consistency
Jian Yin, Lorenzo Alvisi, Mike Dahlin, Arun Iyengar
August 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 3
Publisher: ACM Press
Full text available: pdf(403.96 KB) Additional Information: full citation, abstract, references, citings, index terms

Server-driven consistency protocols can reduce read latency and improve data freshness for a given network and server overhead, compared to the traditional consistency protocols that rely on client polling. Server-driven consistency protocols appear particularly attractive for large-scale dynamic Web workloads because dynamically generated data can change rapidly and unpredictably. However, there have been few reports on engineering server-driven consistency for such workloads. This article repo ...

Keywords: Cache coherence, cache consistency, dynamic content, lease, scalability, volume

9 OTP in server farms
Michael Bruening, Hal Snyder, Martin Logan
October 2002 **Proceedings of the 2002 ACM SIGPLAN workshop on Erlang ERLANG '02**
Publisher: ACM Press
Full text available: pdf(94.61 KB) Additional Information: full citation, abstract, references, index terms

Ericsson's OTP (Open Telecom Platform) offers a number of attractive features if you want to provide a variety of information services on a network with high availability, scalability, and extensibility. However, the major uses of OTP have been in closed, relay-rack systems, rather than in clusters of general-purpose servers. We describe issues we encountered while bringing up applications on OTP in the latter environment at a computer telephony company.

Keywords: erlang, functional programming

10 Transaction processing in PRO-MOTION
Gary D. Walborn, Panos K. Chrysanthis
February 1999 **Proceedings of the 1999 ACM symposium on Applied computing SAC '99**
Publisher: ACM Press
Full text available: pdf(1.28 MB) Additional Information: full citation, references, citings, index terms

Keywords: commit processing, data caching, disconnected database operations, mobile transactions

11 Coven: brewing better collaboration through software configuration management
Mark C. Chu-Carroll, Sara Sprenkle
November 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th ACM SIGSOFT international symposium on Foundations of software engineering: twenty-first century applications SIGSOFT '00/FSE-8**,

Volume 25 Issue 6
Publisher: ACM Press

Full text available: pdf(1.14 MB) Additional Information: full citation, abstract, references, citings, index terms

Our work focuses on building tools to support collaborative software development. We are building a new programming environment with integrated software configuration management which provides a variety of features to help programming teams coordinate their work.

In this paper, we detail a hierachy-based software configuration management system called *Coven*, which acts as a collaborative medium for allowing teams of programmers to cooperate. By providing a family of inter-relat ...

Keywords: collaborative programming

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